Lenovo Intel Xeon Platinum 8454H Prozessor 2,1 GHz 82,5 MB



Marke : Lenovo

Artikel-Code: 4XG7A82866

Produktname : Intel Xeon Platinum 8454H

Lenovo Intel Xeon Platinum 8454H. Prozessorfamilie: Intel® Xeon® Platinum, Prozessorsockel: LGA 4677 (Socket E), Prozessor Lithografie: 10 nm. Speicherkanäle: Okta-Kanal, Maximaler interner Speicher, vom Prozessor unterstützt: 4 TB, Speichertypen, vom Prozessor unterstützt: DDR4-SDRAM. Marktsegment: Server, Nutzungsbedingungen: Server/Enterprise, Unterstützte Befehlssätze: AMX, AVX, AVX 2.0, AVX-512, SSE4.2. Unterstützung der maximalen Enklavengröße für Intel® SGX: 512 GB, Intel® QuickAssist-Technologie (QAT): 4 default devices, Intel® Dynamic Load Balancer (DLB): 4 default devices

Prozessor	
Prozessorhersteller *	Intel
Prozessorgeneration	Intel Xeon Scalable 4th Gen
Prozessor *	8454H
Grundfrequenz des Prozessors *	2,1 GHz
Prozessorfamilie *	Intel® Xeon® Platinum
Anzahl Prozessorkerne *	32
Prozessorsockel *	LGA 4677 (Socket E)
Prozessor Lithografie *	10 nm
Prozessor-Serien	Intel Xeon Platinum 8000 Series
Prozessor-Threads	64
Systembus-Rate	16 GT/s
Prozessorbetriebsmodi *	64-Bit
Prozessor Boost-Frequenz	3,4 GHz
Kerne mit hoher Priorität	12
Frequenz des Kerns mit hoher Priorität	2,2 GHz
Kerne mit niedriger Priorität	20
Frequenz des Kerns mit niedriger Priorität	1,8 GHz
Prozessor-Cache	82,5 MB
Thermal Design Power (TDP)	270 W
Kühler enthalten *	✗
Stepping	E5
Prozessor Codename	Sapphire Rapids

Speicher	
Maximaler interner Speicher, vom Prozessor unterstützt	4 TB
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM
Speicherkanäle *	Okta-Kanal
ECC	✓

Grafik	
Eingebaute Grafikadapter *	✗
Separater Grafikadapter *	✗
Eingebautes Grafikkartenmodell *	Nicht verfügbar
Separates Grafikkartenmodell *	Nicht verfügbar

Merkmale	
Execute Disable Bit	✓
Marktsegment	Server

Prozessor Besonderheiten	
Intel®-Speed-Shift-Technologie	✓
Intel® Transactional Synchronization Extensions	✓
Intel® Total Memory Encryption	✓
Intel® Control-flow Enforcement Technology (CET)	✓
Intel® Crypto-Beschleunigung	✓
Unterstützung der Intel® Plattform-Firmware Resilience	✓
Unterstützung der maximalen Enklavengröße für Intel® SGX	512 GB
Intel® VT-x mit Extended Page Tables (EPT)	✓
Intel® OS Guard	✓
Intel® Software Guard Extensions (Intel® SGX)	✓
Intel® 64	✓
Intel® Virtualization Technologie (VT-X)	✓
Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
AVX-512 Abgesicherte Multiply-Add (FMA) Einheiten	2
Intel® Boot Guard	✓
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Intel® Resource Director Technology (Intel® RDT)	✓
Intel® Run Sure Technology	✓
Modusbasierte Execute Control (MBE)	✓
Intel® Optane™ DC Persistent Memory unterstützt	✓
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
Intel® QuickAssist Software Acceleration	✓
Aktivierung von Intel® On Demand-Funktionen	✓
Intel® QuickAssist-Technologie (QAT)	4 default devices
Intel® Dynamic Load Balancer (DLB)	4 default devices

Merkmale	
Nutzungsbedingungen	Server/Enterprise
Maximale Anzahl der PCI-Express-Lanes	80
PCI-Express-Slots-Version	5.0
Unterstützte Befehlssätze	AMX, AVX, AVX 2.0, AVX-512, SSE4.2
Skalierbarkeit	S8S

Prozessor Besonderheiten	
Intel® Hyper-Threading-Technik (Intel® HT Technology)	✔
Intel® Turbo-Boost-Technologie	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Trusted-Execution-Technik	✔

Prozessor Besonderheiten	
Intel® Data Streaming Accelerator (DSA)	4 default devices
Intel® In-memory Analytics Accelerator (IAA)	4 default devices
Intel® Advanced Matrix Extensions (AMX)	✔

Betriebsbedingungen	
Tcase	71 °C
DTS Max	97 °C

Technische Details	
Anzahl der UPI-Links	4

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